

FIG. 1

DATABASE RECORD

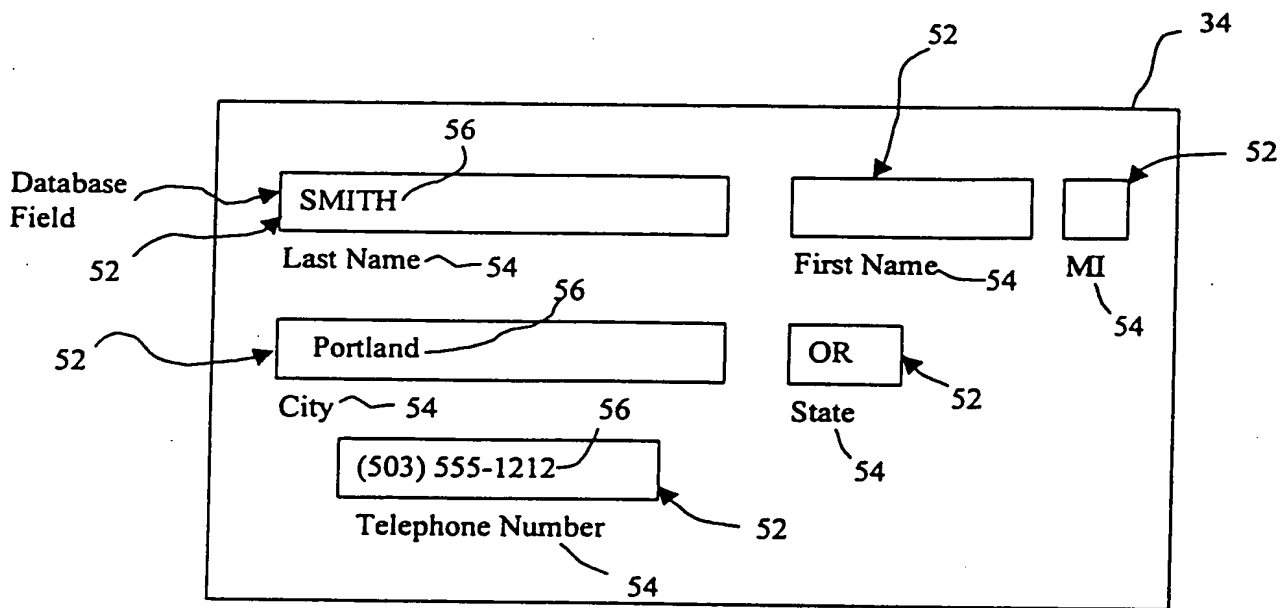


FIG. 2

SEARCH-ROUTING DATABASE RECORD

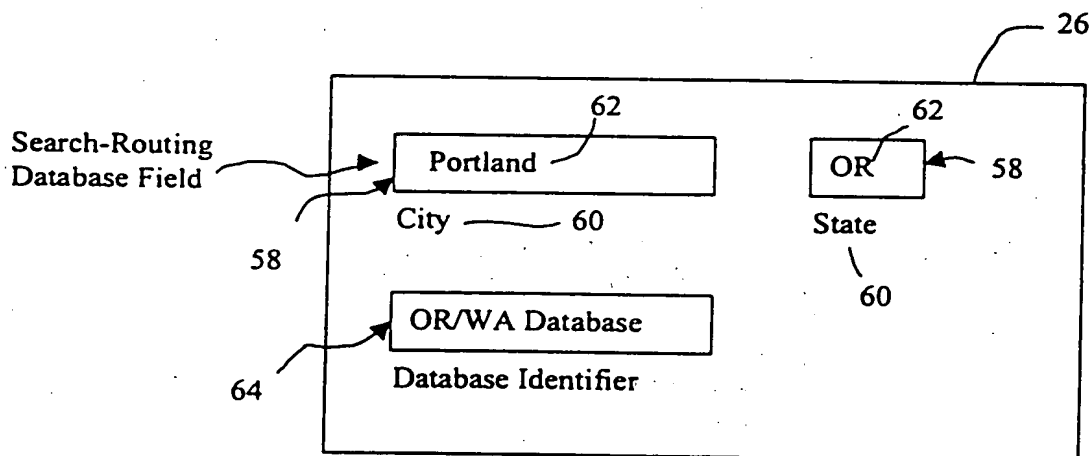


FIG. 3

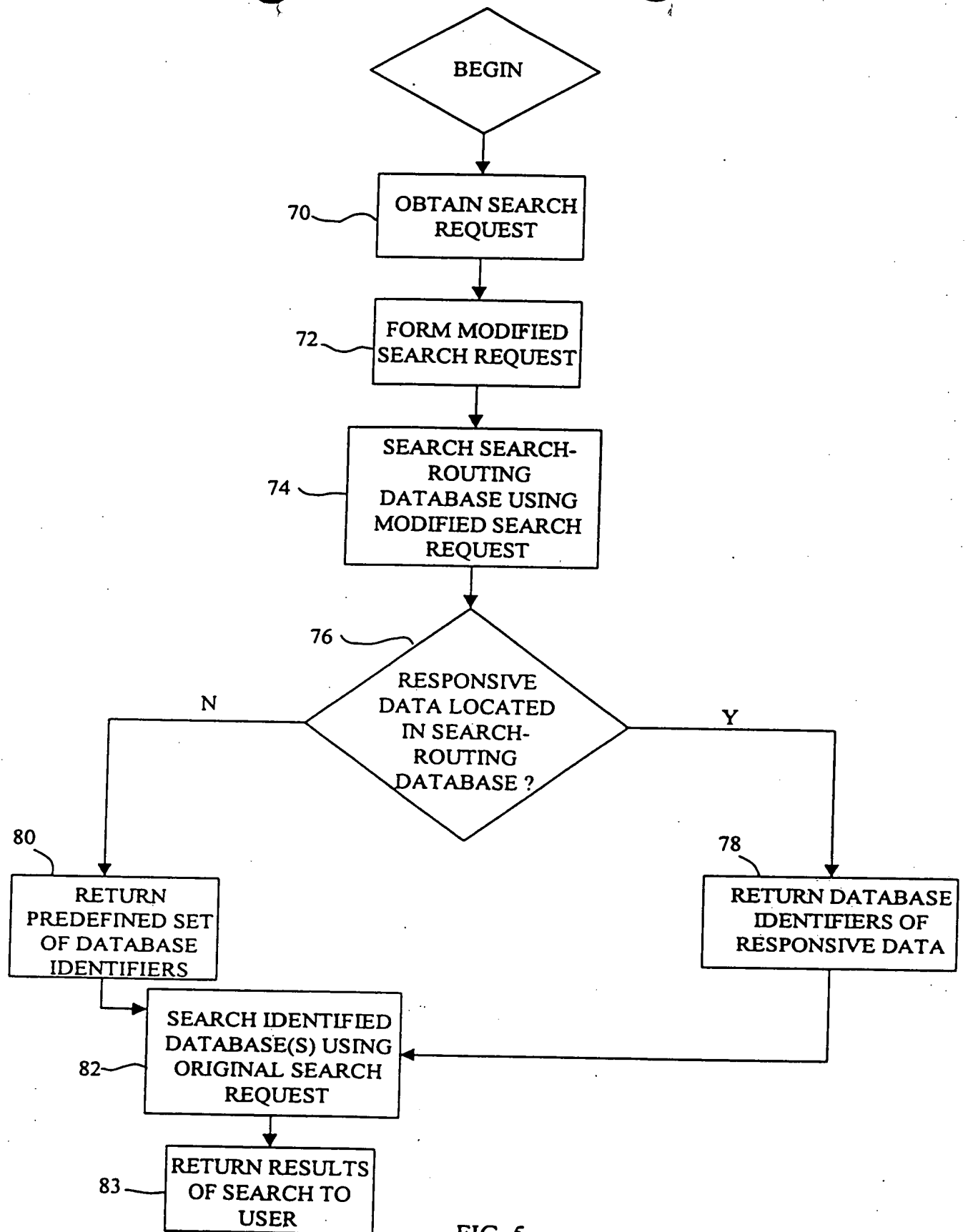


FIG. 5

002220 20422560

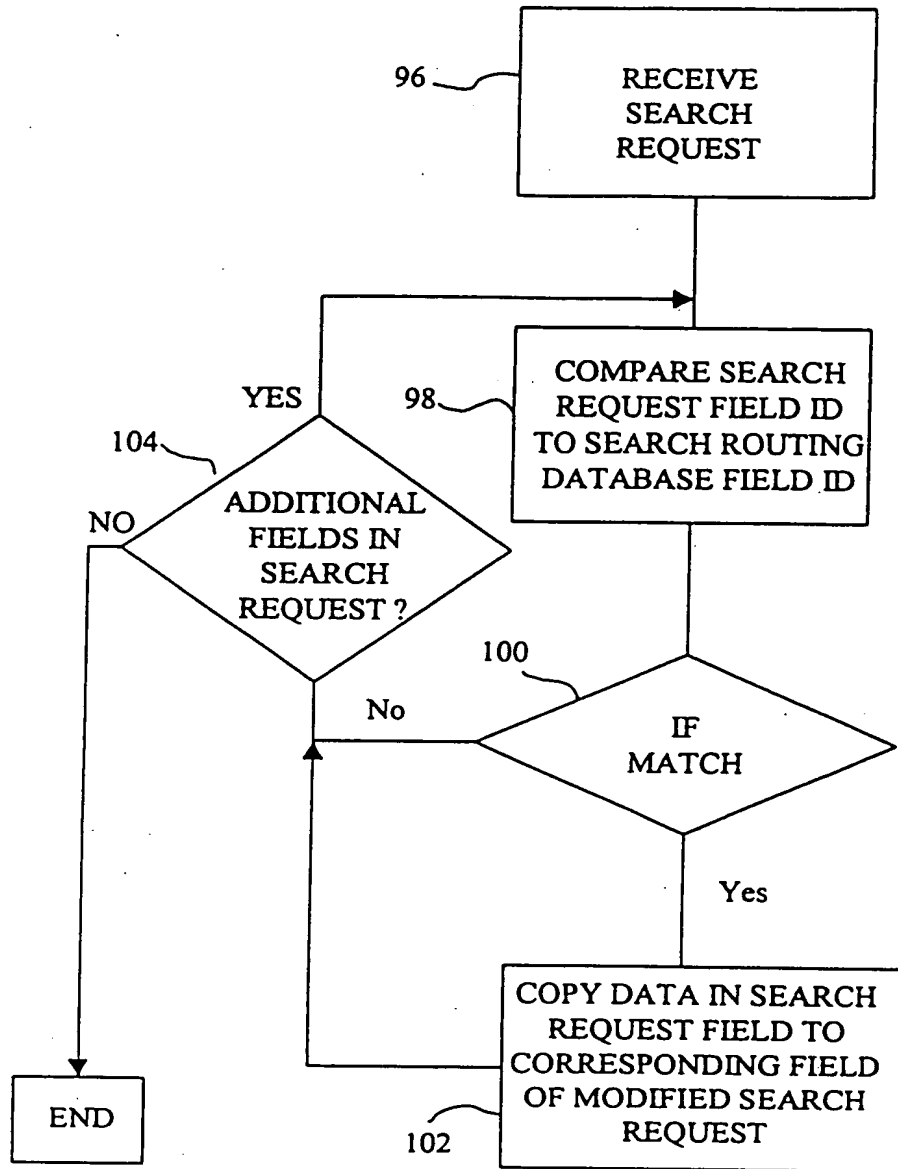


FIG. 7

UPDATE DATABASE RECORD

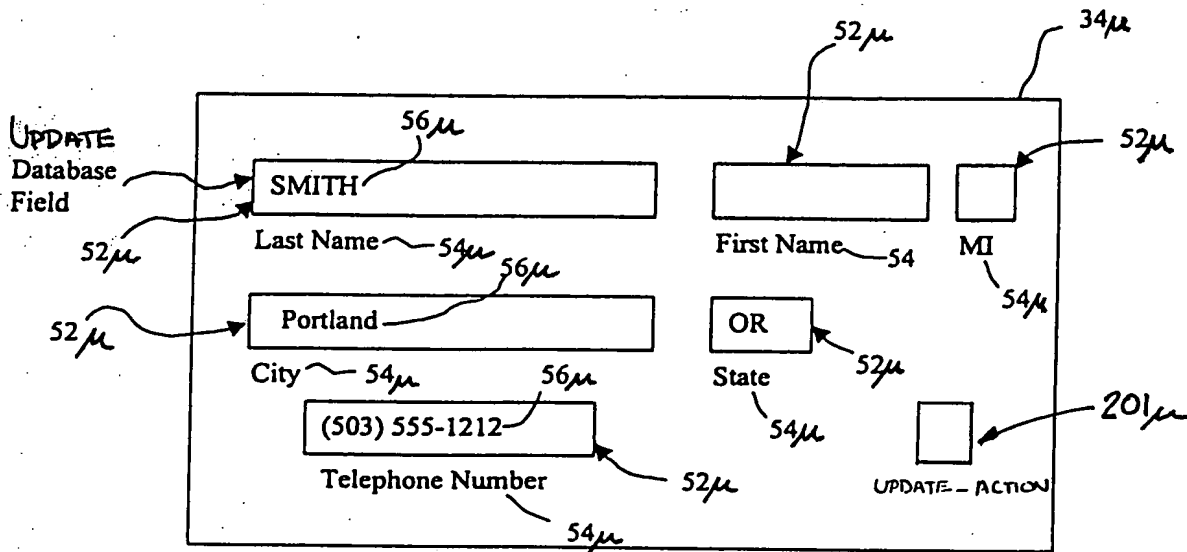


FIG. 10

UPDATE SEARCH-ROUTING DATABASE RECORD

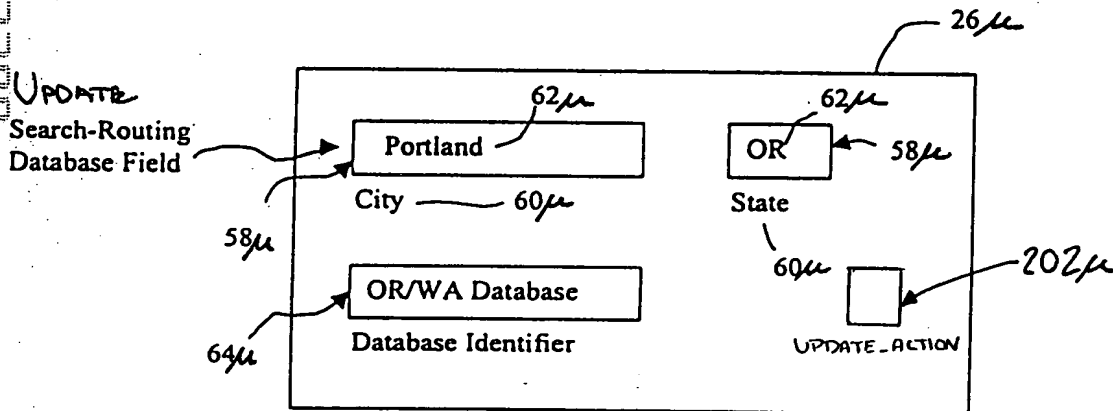


FIG. 11

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graph TD
    BEGIN{BEGIN} --> 70[OBTAIN SEARCH REQUEST]
    70 --> 72[FORM MODIFIED SEARCH REQUEST]
    72 --> 74[SEARCH SEARCH-ROUTING DATABASE USING MODIFIED SEARCH REQUEST]
    74 --> 76{RESPONSIVE DATA LOCATED IN SEARCH-ROUTING DATABASE?}
    76 -- N --> 80[RETURN PREDEFINED SET OF DATABASE IDENTIFIERS]
    76 -- Y --> 78[RETURN DATABASE IDENTIFIERS OF RESPONSIVE DATA]
    80 --> 82[SEARCH IDENTIFIED DATABASE(S) USING ORIGINAL SEARCH REQUEST]
    78 --> 82
    82 --> 84[SEARCH IDENTIFIED UPDATE DATABASE(S) USING ORIGINAL SEARCH REQUEST]
    84 --> 86[RETURN RESULTS OF SEARCH TO PROXY SERVER]
    82 --> 86
    86 --> 88{IS THE VALUE OF THE UPDATE ACTION FIELD "D"?}
    88 -- YES --> 90[REMOVE ALL RECORDS FROM SEARCH RESULT THAT ARE EQUIVALENT TO UPDATE RECORD]
    88 -- NO --> 92[RETURN RESULTS OF SEARCH OF ALL DATABASES TO USER]
    90 --> 92
  
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FIG. 12